_	<i>i</i>		
:	DATE: 9-8-01		
	DATE : / TO : Supervisor, A	1 1/2 (	
0	SUBJECT: Conti	ficate of Correction Request in Patent No.	0007622
		•	
181	A response to the following question(s) is requested with respect to the accompanying request for a certificate of correspondence of the following question(s) is requested with respect to the accompanying request for a certificate of correspondence of the claim of the change (s) requested under 37 CFR 1.323 Materially affect the scope or meaning of the claim by the examiner in the patent?		
2/			
N.			
V.	3. Applicant disagrees wi	th change(s) initialed and dated by Examine granted?	r in lieu of an Examiner's Amendmen
J.	With respect to the change(s) requested, correcting Office errors, should the patent read as shown in the of correction?		
e fr	5. If the amendment filed		sidered by the Examiner, would the
11/1/2	amendment have been		
Offil	PLEASE RESPOND WITHIN 7	DAYS AND RETURN THE FILE TO	domes 6 - Hilmer
. / /	ROOM 918, PK III		Legal Insturment Examiner
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10	TO: CERTIFICATE OF COR	RECTION BRANCH	DATE:
	The decision regarding the change(s) requested in the certificate of correction is shown below.		
1	1.YES	NO Comments t	
M	<b>↓</b>		elow
•	2.YES		below PUBLISH
! !	3.YES	<u> </u>	· · · · · · · · · · · · · · · · · · ·
	4.YES	NO Comments	below
1	☐ 5.YES	NO Comments	below
	. Comments		
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	S	Olik Chaudhuri <i>OC</i> upervisory Patent Examiner	
		Technology Cervier 2800	_
•		Supervisor	Art Unit RTMENT OF COMMERCE Petcit and ')
1	PTOL-306 (REV. 10/87)	U.S. DEPA	KIWENI OF COMMERCE +

PTOL-306 (REV. 10/87)

PATENT NO. : 6.007,622

Page 1 of 7

DATED

: December 28, 1999

INVENTOR(S) : Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Title page,

#### Item [57] ABSTRACT,

Line 8, after "crucible" insert -- within an airtight vessel formed of a --;

Line 7, after "crystal" replace ". Particularly," by --, and particularly a carbon-doped --; Lines 8, 10 and 15, cancel the entire line;

Line 9, after "crystal" replace "in which" by -- . --;

Line 12, after "prior" replace "arts as set forth in" by -- art --;

Line 13, replace the line to read: -- methods for preparing a carbon-doped group --;

Line 14, after "crystal" replace "in which carbon is" by --, as set forth in the following described publications. --;

Line 16, before "Japanese" delete "In";

Line 17, after "hereinafter)" replace "," by -- discloses --;

Line 19, after "method)", insert -- . --;

Line 20, please cancel the entire line;

Delete the paragraph spacing between lines 20 and 21;

Line 21, delete the indentation:

Delete the paragraph spacing between lines 22 and 23;

Line 23, (actual line count) delete the indentation;

Line 34, (actual line count), after "in" insert -- the formation of --, after "like" replace "to be" by -- which is --;

Delete the paragraph spacing between lines 35 and 36 (actual line count);

Line 36, delete the indentation;

Line 40, before "Journal" replace "In" by -- The --;

Line 42, after "hereinafter)" replace "," by -- discloses --;

Line 44, after "method)" delete "is disclosed";

Delete the paragraph spacing between lines 44 and 45:

Line 45, delete the indentation;

Delete the paragraph spacing between lines 46 and 47;

Line 47, delete the indentation, after "62" replace "having" by -- which has --; after "doped" insert -- therein --;

Line 48, after "advance," insert -- and which was --, after "method" insert --, --;

Line 55(actual line counter), after "containing" insert -- 200ppm of --, after "water" delete "of 200ppm";

**Delete the paragraph** between cols. 1 and 2;

### UNITED STATES PATENT AND TRADEMARK OFFICE

### **CERTIFICATE OF CORRECTION**

Page 2 of 7

PATENT NO. : 6,007,622

DATED

: December 28, 1999

INVENTOR(S) : Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Column 2.

Line 1, delete the indentation, before "U.S." delete "In";

Line 2, after "hereinafter)" replace "," by -- dis-closes --, after "preparing" insert -- a --;

Line 3, after "method insert -- . --;

Line 4, cancel the entire line;

Delete the paragraph spacing between lines 4 and 5;

Line 5, delete the indentation; after "preparing" insert -- a --;

Delete the paragraph spacing between lines 14 and 15;

Line 21, (actual line count), delete the paragraph spacing between lines 21 and 22;

Line 22, delete the indentation;

Line 28, after "preparing" insert -- the same. --;

Line 29, before "This", delete "thereof.";

Line 30, after "contained", replace "having" by -- in --;

Line 34, after "concentration" delete "of";

Line 36, after "art" insert -- methods --;

Line 42, after "since" insert -- a --;

Line 45, after "oxygen," replace "that" by -- which --;

Line 47, after "gas." replace "There was" by -- As a result, there is --;

Line 63, after "preparing" replace "in" by --, with --;

Line 64, after "ibility" insert -- , --, after "a" insert -- carbon-doped --; after crystal,

replace "of" by -- having --;

Line 65, after characteristics" insert -- and --;

Line 66, after "removed" insert -- therefrom --, before "in" delete "and";

#### Column 3,

Line 1, before "aspect" replace "According to an" by -- One --, after "invention" replace "." by -- provides --:

Line 2, after "crystal", insert -- . --;

Line 3, before "This", delete "is provided".

Line 4, after "doped" insert -- therein --;

Lines 9 and 11, after "compound" insert -- raw --;

Line 20, after "the" insert -- initial --;

Line 21, after "doped" insert -- into the material --;

Line 23, after "obtained" replace "in" by -- with --;

Line 30, after "Preferably," insert -- the --;

Delete the paragraph spacing between lines 30 and 31;

PATENT NO.

: 6,007,622

: December 28, 1999

INVENTOR(S) : Kawase et al.

Page 3 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Line 31, delete the indentation;

Line 34, delete the paragraph spacing between lines 35 and 36;

Line 36, before "oxide", replace "Boron" by -- The boron -- after "contains" delete "water of"; after "ppm" replace "." by -- of water. --;

Line 38, after "filled" insert -- into the crucible --; after "carbon" insert -- to be --;

Line 39, delete the paragraph spacing between lines 39 and 40;

Line 42, after "Furthermore," insert -- an additional amount of carbon must be supplied to make up for the --, after "of" (first occurrence) delete "the";

Line 43, after "carbon" (first occurrence) replace "at the" by -- in --, after "compound", replace "must" by ---. --;

Line 44, before "Thus," delete "must be supplied.";

Line 47, delete the paragraph spacing between lines 46 and 47;

Line 52, delete the paragraph spacing between lines 52 and 53;

Line 53, delete the indentation; after "process," replace "the" by -- any --, after "in' insert -- the --;

Line 54, delete the paragraph spacing between lines 54 and 55;

Line 55, delete the indentation, after "applying" replace "a" by -- the --, after

"treatment" replace "on" by -- to the --;

Line 63, before "change" insert -- further --;

#### Column 4.

Delete the paragraph spacing between lines 3 and 4;

Line 4, delete the indentation;

Line 12, after "those" insert -- samples --;

Line 25, after "little" insert -- further --;

Delete the paragraph spacing between lines 31 and 32;

Line 32, delete the indentation:

Line 38, (actual line count), after "like" insert --, --, before "powder" delete "used",

after "powder" insert -- being used --;

Delete the paragraph spacing between lines 41 and 42 (actual line count);

Line 43, delete the indentation;

Line 46, (actual line count), after "oxide" insert -- which is --;

Line 47, (actual line count), after "state" replace "where" by -- in which --;

Delete the paragraph spacing between lines 49 and 50 (actual line count);

Line 50, delete the indentation:

Delete the paragraph spacing between lines 58 and 59 (actual line count);

Line 59, delete the indentation:

## UNITED STATES PATENT AND TRADEMARK OFFICE

### **CERTIFICATE OF CORRECTION**

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S) : Kawase et al.

Page 4 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Delete the paragraph spacing between lines 61 and 62, (actual line count);

Line 62, delete the indentation; after "in" insert -- the --;

Line 63, (actual line count), after "oxide" replace "that" by -- which --, after "state"

replace "where" by -- in which --;

Line 65, (actual line count), after "above" insert -- the --, after "oxide", replace "to" by -- and thereby --;

#### Column 5,

Line 1, before "solid" insert -- the --;

Delete the paragraph spacing between lines 2 and 3;

Line 3, delete the indentation;

Delete the paragraph spacing between lines 12 and 13;

Line 13, delete the indentation;

Delete the paragraph spacing between lines 17 and 18;

Line 18, delete the indentation;

Delete the paragraph spacing between lines 23 and 24;

Line 23, delete the indentation, after "constituent" replace "element" by -- elements --;

Line 25, after "crucible" replace "to induce" by -- and induces --;

Lines 52, 56 and 59, after "semiconductor", delete "crys-";

Lines 53, 57 and 60, before "single", delete "tal";

Line 61, before "DESCRIPTION" insert -- DETAILED --;

Delete the paragraph spacing between Col. 5, line 67 and Col. 6, line 1;

#### Column 6,

Line 1, delete the indentation;

Line 2, after "powder 13" insert -- which has been --;

Line 3, after "4" insert -- forming a boron oxide layer 4b and a boron oxide film 4a as described below --;

Line 4, after "crystal" insert -- 7 --;

Line 6, after "crucible 1," replace "arrangement was provided so" by -- the materials were so arranged --;

Line 31, after "heater "8" replace "using" by -- in --;

Delete the paragraph spacing between lines 31 and 32;

Line 32, delete the indentation;

Delete the paragraph spacing between lines 34 and 35;

Line 35, delete the indentation;

Line 38, after "melt 2" delete ". The";

### UNITED STATES PATENT AND TRADEMARK OFFICE

### CERTIFICATE OF CORRECTION

: 6,007,622 PATENT NO.

: December 28, 1999

Page 5 of 7

INVENTOR(S) : Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Line 39, before "boron", replace "thickness of the" by -- as a --, after "4b" delete "covering the upper";

Line 40, before "approximately" replace "surface of GaAs melt 2 was" by -- having a thickness of --;

Line 41, after "4b" replace "." by --, as shown also in Fig. 1. --;

Line 42, after "was" replace "kept" by -- maintained --;

Delete the paragraph spacing between lines 43 and 44 (actual line count);

Line 44, (actual line count), delete the indentation;

Line 47, (actual line count), after "crystal" replace "is" by -- are --;

Table 2, line 2, after "crystal" replace "corresponds" by -- correspond --;

Delete the paragraph spacing between lines 65 and 66;

Line 66, delete the indentation;

#### Column 7,

Delete the paragraph spacing between lines 14 and 15;

Line 15, delete the indentation;

Line 17, after "oxide 4" insert -- forming a boron oxide layer 4b and a boron oxide film 4a as described below --;

Line 19, after "crucible 1," delete "arrangement";

Line 20, before "so" replace "was provided" by -- the materials were arranged --

Delete the paragraph spacing between lines 24 and 25;

Line 25, delete the indentation;

Delete the paragraph spacing between lines 27 and 28;

Line 28, delete the indentation;

Line 44, after "heater 8" replace "using" by -- in --;

Delete the paragraph spacing between lines 45 and 46;

Line 46. delete the indentation:

Delete the paragraph spacing between lines 49 and 50;

Line 50, delete the indentation;

Line 53, after "melt" replace ". This" by -- 2 as a --;

Line 54, replace the line to read: -- oxide layer 4b --;

Line 55, before "approximately" replace "was" by -- having a thickness of --;

Line 60, after "was" replace "kept" by -- maintained --;

Delete the paragraph spacing between lines 61 and 62;

Line 62, delete the indentation;

PATENT NO.

DATED

: 6,007,622

: December 28, 1999

INVENTOR(S) : Kawase et al.

Page 6 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

#### Column 8,

Delete the paragraph spacing between lines 15 and 16;

Line 16, delete the indentation, after "experiment" replace "are" by -- were --;

Delete the paragraph spacing between lines 18 and 19;

Line 19, delete the indentation;

Delete the paragraph spacing between lines 35 and 36;

Line 36, delete the indentation, after "conditions" replace "are" by -- were --;

Delete the paragraph spacing between lines 37 and 38;

Line 38, delete the indentation;

Delete the paragraph spacing between lines 60 and 61;

Line 61, delete the indentation;

Line 64, after "oxide 4" insert -- that will form a boron oxide layer 4b and a boron oxide film 4a as described below --;

Line 66, before "so" replace "arrangement was provided" by -- the materials were arranged --;

#### Column 9.

Delete the paragraph spacing between lines 6 and 7;

Line 7, delete the indentation, after "of" replace "example 4" by -- example 5 --;

Line 22, after "heater 8" replace "using" by -- in a --;

Delete the paragraph spacing between lines 23 and 24;

Line 24, delete the indentation;

Delete the paragraph specing between lines 26 and 27;

Line 27, delete the indentation;

Line 30, after "melt 2" replace ". The thickness of the" by -- as a --;

Line 31, replace the line to read: -- oxide layer 4b --;

Line 32, before "approximately" replace "was" by -- having a thickness of --;

Line 36, after "was" replace "kept" by -- maintained --;

Delete the paragraph spacing between lines 37 and 38;

Line 38, delete the indentation;

#### Column 10,

Line 2, after "upon" replace "difference" by -- differences --;

Line 47, before "material,", replace "Law" by -- raw --;

PATENT NO.

: 6,007,622

: December 28, 1999

INVENTOR(S): Kawase et al.

Page 7 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 11,

Line 42, after "powder", delete "solid";

Column 12,

Line 3, after "fiber", delete "solid".

Signed and Sealed this

Twenty-seventh day of November, 2001

Nicholas P. Ebdici

Attesting Officer

NICHOLAS P. GODICI Acting Director of the United States Patent and Trademark Office

PATENT NO. : 6,007,622

DATED : Dec. 28, 1999

INVENTOR(S): Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, under [57] ABSTRACT: line 8, after "crucible" insert --within an airtight vessel formed of a--; Col. 1, line 7, after "crystal" replace ". Particularly," by --, and particularly a carbon-doped--; 8, cancel the entire line; line 9, after "crystal" replace "in which" by --.-; line 10, cancel the entire line; line 12, after "prior" replace "arts as set forth in" by --art--; line 13, replace the line to read: --methods for preparing a carbon-doped group--; line 14, after "crystal" replace "in which carbon is" by --, as set forth in the following described publications. --; line 15, cancel the entire line; line 16, before "Japanese" delete "In"; line 17, after "hereinafter)" replace "," by --discloses--; line 19, after "method)", insert --.-; line 20, please cancel the entire line; delete the paragraph spacing between lines 20 and 21; line 21, delete the indentation; delete the paragraph spacing between lines 22 and 23; line 23, (actual line count) delete the indentation. line 34, (actual line count), after "in" insert -- the formation of--, after "like" replace "to be" by --which is--; delete the paragraph spacing between lines 35 and 36 (actual line count); line 36, delete the indentation;

- page 1 of 10 -

ADDRESS OF SENDER:

FASSE PATENT ATTORNEYS, P.A. INDIAN POND LANE
P. O. BOX K

PATENT NO. 6,007,622

ST. ALBANS, ME 04971

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S): Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 1, line 40, before "Journal" replace "In" by --The--; line 42, after "hereinafter)" replace "," by --discloses--; line 44, after "method)" delete "is disclosed"; delete the paragraph spacing between lines 44 and 45 line 45, delete the indentation; delete the paragraph spacing between lines 46 and 47; line 47, delete the indentation, after "62" replace "having" by --which has--; after "doped" insert --therein--, line 48, after "advance," insert -- and which was--, after "method" insert --,--; line 55, (actual line counter), after "containing" insert --200ppm of--, after "water" delete "of 200ppm"; delete the paragraph between cols. 1 and 2; Col. 2, line 1, delete the indentation, before "U.S." delete "In"; line 2, after "hereinafter)" replace "," by --discloses--, after "preparing" insert --a--; line 3, after "method" insert --.-; line 4, cancel the entire line; delete the paragraph spacing between lines 4 and 5; line 5, delete the indentation; after "preparing" insert --a--; delete the paragraph spacing between lines 14 and 15; line 21, (actual line count), delete the paragraph spacing between lines 21 and 22;

- page 2 of 10 -

ADDRESS OF SENDER:

FASSE PATENT ATTORNEYS, P.A.
INDIAN POND LANE
P. O. BOX K
ST. ALBANS, ME 04971

PATENT NO. 6,007,622

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S): Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
line 22, delete the indentation;
Col. 2,
         line 28, after "preparing" insert --the same.--;
line 29, before "This", delete "thereof.--;
          line 30, after "contained", replace "having" by --in--;
          line 34, after "concentration" delete "of";
          line 36, after "art" insert --methods--;
          line 42, after "since" insert --a--;
          line 45, after "oxygen," replace "that" by --which--;
          line 47, after "gas." replace "There was" by --As a
                    result, there is--.
         line 63, after "preparing" replace "in" by --, with--;
          line 64, after "ibility" insert --,--, after "a" insert
                    --carbon-doped--; after crystal, replace "of"
                    by --having--,
          line 65, after "characteristics" insert --and--;
          line 66, after "removed" insert --therefrom--, before
                    "in" delete "and";
Col. 3, line 1,
                    before "aspect" replace "According to an" by
                    --One--, after "invention" replace "," by
                    --provides--;
         line 2,
                    after "crystal", insert --.--;
          line 3, before "This", delete "is provided"; ...
line 4, after "doped" insert --therein--;
         line 9, after "compound" insert --raw--;
line 11, after "compound" insert --raw--.
line 20, after "the" insert --initial--;
line 21, after "doped" insert --into the material--;
          line 23, after "obtained" replace "in" by --with--;
          line 30, after "Preferably," insert --the--;
          delete the paragraph spacing between lines 30 and 31;
```

- page 3 of 10 -

ADDRESS OF SENDER:

FASSE PATENT ATTORNEYS, P.A. PATENT NO. 6,007,622
INDIAN POND LANE
P. O. BOX K
ST. ALBANS, ME 04971

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S): Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
Col. 3, line 31, delete the indentation;
        line 34, delete the paragraph spacing between lines 35
                 and 36;
        line 36, before "oxide", replace "Boron" by -- The boron-
                 after "contains" delete "water of";
                  after "ppm" replace "." by --of water.--.
        line 38, after "filled" insert --into the crucible--;
                  after "carbon" insert --to be--;
        line 39, delete the paragraph spacing between lines 39
                 and 40;
        line 42, after "Furthermore," insert -- an additional
               amount of carbon must be supplied to make up
               for the--, after "of" (first occurrence)
               delete "the";
        line 43, after "carbon" (first occurrence) replace "at
                 the" by --in--, after "compound", replace
                 "must" by --.-;
        line 44, before "Thus," delete "must be supplied.--;
        line 47, delete the paragraph spacing between lines 46
                 and 47;
        line 52, delete the paragraph spacing between lines 52
                 and 53;
        line 53, delete the indentation; after "process,"
                 replace "the" by --any--, after "in" insert
                --the--;
        line 54, delete the paragraph spacing between lines 54
                 and 55;
        line 55, delete the indentation, after "applying"
                 replace "a" by --the--, after "treatment"
                 replace "on" by --to the--.
        line 63, before "change" insert --further--;
                         - page 4 of 10 -
```

ADDRESS OF SENDER:

FASSE PATENT ATTORNEYS, P.A. INDIAN POND LANE
P. O. BOX K

ST. ALBANS, ME 04971

PATENT NO. 6,007,622

PATENT NO. : 6,007,622

DATED: December 28, 1999

INVENTOR(S): Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

delete the paragraph spacing between lines 3 and 4; line 4, delete the indentation; line 12, after "those" insert --samples--. line 25, after "little" insert --further--; delete the paragraph spacing between lines 31 and 32; line 32, delete the indentation; line 38, (actual line count), after "like" insert --,--, before "powder" delete "used", after "powder" insert --being used--; delete the paragraph spacing between lines 41 and 42 (actual line count); line 43, delete the indentation. line 46, (actual line count), after "oxide" insert --which is--; line 47, (actual line count), after "state" replace where by --in which--; delete the paragraph spacing between lines 49 and 50 (actual line count); line 8, line 50, delete the indentation; delete the paragraph spacing between lines 58 and 59 (actual line count); line 59, delete the indentation; delete the paragraph spacing between lines 61 and 62, (actual line count); line 62, delete the indentation; after "in" insert --the--; "where" by --in which--; line 65, (actual line count), after "above" insert --the--, after "oxide", replace "to" by --and thereby--;

- page 5 of 10 -

ADDRESS OF SENDER:

FASSE PATENT ATTORNEYS, P.A. PATENT NO. 6,007,622
INDIAN POND LANE
P. O. BOX K
ST. ALBANS, ME 04971

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S): Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 5, line 1, before "solid" insert --the--; delete the paragraph spacing between lines 2 and 3; line 3, delete the indentation; delete the paragraph spacing between lines 12 and 13; line 13, delete the indentation; delete the paragraph spacing between lines 17 and 18; line 18, delete the indentation; delete the paragraph spacing between lines 23 and 24; line 23, delete the indentation; after "constituent" replace "element" by --elements--; line 25, after "crucible" replace "to induce" by --and induces--. line 52, after "semiconductor", delete "crys-";
line 53, before "single", delete "tal"; line 56, after "semiconductor", delete "crys-"; line 57, before "single", delete "tal"; line 59, after "semiconductor", delete "crys-"; line 60, before "single", delete "tal"; line 61, before "DESCRIPTION" insert --DETAILED--; delete the paragraph spacing between Col. 5, line 67 and Col. 6, line 1; Col. 6, line 1, delete the indentation; line 2, after "powder 13" insert --which has been--; after "4" insert --forming a boron oxide line 3, layer 4b and a boron oxide film 4a as described below--; after "crystal" insert --7--;
after "crucible 1," replace "arrangement was line 4, line 6, provided so by -- the materials were so arranged--.

- page 6 of 10 -

ADDRESS OF SENDER:

FASSE PATENT ATTORNEYS, P.A. INDIAN POND LANE
P. O. BOX K
ST. ALBANS, ME 04971

PATENT NO. 6,007,622

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S): Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 6, line 31, after "heater "8" replace "using" by --in--; delete the paragraph spacing between lines 31 and 32; line 32, delete the indentation; delete the paragraph spacing between lines 34 and 35; line 35, delete the indentation. line 38, after "melt 2" delete ". The"; line 39, before "boron", replace "thickness of the" by --as a--, after "4b" delete "covering the upper"; line 40, before "approximately" replace \*surface of GaAs melt 2 was" by --having a thickness of --; line 41, after "4b" replace "." by --, as shown also in Fig. 1.--; line 42, after "was" replace "kept" by --maintained--; delete the paragraph spacing between lines 43 and 44 (actual line count); line 44, (actual line count), delete the indentation; line 47, (actual line count), after "crystal" replace
"is" by --are--;
following Table 2, line 2, after "crystal" replace "corresponds" by --correspond--. delete the paragraph spacing between lines 65 and 66; line 66, delete the indentation; Col. 7, delete the paragraph spacing between lines 14 and 15; line 15, delete the indentation; line 17, after "oxide 4" insert --forming a boron oxide layer 4b and a boron oxide film 4a as described below--; - page 7, of 10 -

ADDRESS OF SENDER:

FASSE PATENT ATTORNEYS, P.A. INDIAN POND LANE

PATENT NO. 6,007,622

P. O. BOX K

ST. ALBANS, ME 04971

### UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S): Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 7, line 19, after "crucible 1," delete "arrangement" line 20, before "so", replace "was provided" by -- the materials were arranged--; delete the paragraph spacing between lines 24 and 25; line 25, delete the indentation; delete the paragraph spacing between lines 27 and 28; line 28, delete the indentation; line 44, after "heater 8" replace "using" by --in--; delete the paragraph spacing between lines 45 and 46; line 46, delete the indentation; delete the paragraph spacing between lines 49 and 50; line 50, delete the indentation; line 53, after "melt" replace ". --2 as a--; line 54, replace the line to read: --oxide layer 4b--; line 55, before "approximately" replace "was" by --having a thickness of--; line 60, after "was" replace "kept" by --maintained--; delete the paragraph spacing between lines 61 and 62; line 62, delete the indentation; Col. 8, delete the paragraph spacing between lines 15 and 16; line 16, delete the indentation, after "experiment" replace "are" by --were--; delete the paragraph spacing between lines 18 and 19; line 19, delete the indentation; delete the paragraph spacing between lines 35 and 36; line 36, delete the indentation, after "conditions" replace "are" by --were--; delete the paragraph spacing between lines 37 and 38; line 38, delete the indentation. - page 8 of 10 -

ADDRESS OF SENDER:

FASSE PATENT ATTORNEYS, P.A. PATENT NO. 6,007,622 INDIAN POND LANE P. O. BOX K ST. ALBANS, ME 04971

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S): Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 8, delete the paragraph spacing between lines 60 and 61;
line 61, delete the indentation;

line 64, after "oxide 4" insert --that will form a boron oxide layer 4b and a boron oxide film

4a as described below--; line 66, before "so" replace "arrangement was provided" by --the materials were arranged--;

Col. 9, delete the paragraph spacing between lines 6 and 7; line 7, delete the indentation, after "of" replace "example 4" by --example 5--.

line 22, after "heater 8" replace "using" by --in

delete the paragraph spacing between lines 23 and 24; line 24, delete the indentation;

delete the paragraph spacing between lines 26 and 27;

line 27, delete the indentation;

line 30, after "melt 2" replace ". The thickness of the" by --as a--;

line 31, replace the line to read: --oxide layer 4b--;

line 36, after "was" replace "kept" by --maintained--;

delete the paragraph spacing between lines 37 and 38; line 38, delete the indentation.

Col.10, line 2, after "upon" replace "difference" by --differences--;

line 47, before "material,", replace "Law" by --raw--;

- page 9 of 10 -

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FASSE PATENT ATTORNEYS, P.A.

PATENT NO. 6,007,622

INDIAN POND LANE
P. O. BOX K

ST. ALBANS, ME 04971

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,007,622

DATED : December 28, 1999

INVENTOR(S): Kawase et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 11, line 42, after "powder", delete "solid";
Col. 12, line 3, after "fiber", delete "solid".

- page 10 of 10 -

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PATENT NO.: 6,007,622